

Amendment and Response to C.F.R. 1.116
Applicant: Daniel R. Marshall
Serial No.: 09/759,867
Filed: January 12, 2001
Docket No.: 10002307-1
Title: PORTABLE INFORMATION STORAGE MODULE FOR INFORMATION SHOPPING

AMENDMENTS TO THE CLAIMS

This listing will replace all prior revisions and listings of the claims.

Please amend claims 1-7, 10-13, 15, 18, 23, 24, 29-31, 34, 35, and 37 as follows:

- 1.(Currently Amended) A method of handling information comprising:
 - storing electronically readable information including audio and visual media into a portable storage module including a memory component sized approximately one square millimeter and capable of storing gigabytes of data~~an atomic-resolution storage-memory component~~; and
 - recalling selectively a portion of the electronically readable information from the ~~atomic-resolution-storage-memory~~ component of the portable storage module into an information playback device for consumption by a user.
- 2.(Currently Amended) The method of claim 1, wherein ~~the storing electronically readable information step~~ further includes transferring the electronically readable information from an external information source into the ~~atomic-resolution-storage-memory~~ component of the portable storage module.
- 3.(Currently Amended) The method of claim 2, wherein ~~the transferring step electronically readable information~~ further comprising:
 - selecting at least one of a stationary entertainment library and an internet website as the external information source.
- 4.(Currently Amended) The method of claim 2, wherein ~~the storing step electronically readable information~~ further comprises:
 - providing multiple types of entertainment media as the electronically readable information;
 - storing the entertainment media into the external information source; and
 - providing the electronically readable information for user-initiated wireless transfer from the external information source to the portable storage module.

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- 5.(Currently Amended) The method of claim 1, and further comprising:
repeating the storing step to capture additional electronically readable information into the ~~atomic-resolution storage-memory~~ component of the storage module.
- 6.(Currently Amended) The method of claim 1 wherein ~~the-recalling step-selectively a portion of the electronically readable information~~ further comprises the information playback device including a notebook computer.
- 7.(Currently Amended) The method of claim 1, wherein ~~the-recalling step-selectively a portion of the electronically readable information~~ further comprises the information playback device comprising an audio player.
- 8.(Original) The method of claim 1, wherein the electronically readable information is at least one of a book, a music collection, and a movie.
- 9.(Previously Presented) The method of claim 1, and further comprising:
containing the portable storage module within a housing and wearing the housed portable storage module on or about a body of a user.
- 10.(Currently Amended) The method of claim 9, wherein ~~the-containing step-the portable storage module~~ further comprises:
arranging the portable storage module within at least one of a wristwatch, a neck worn pendant, a bracelet, a cellular phone, a pair of eyeglasses, an image display, a notebook computer, and an audio headset.
- 11.(Currently Amended) The method of claim 1, wherein ~~the-storing step-electronically readable information~~ further comprises:
providing the storage module with a communication interface and a power supply.
- 12.(Currently Amended) The method of claim 11, wherein ~~the-providing step-the storage module~~ further comprises:
providing the communication interface with a wireless communication path including infrared or radio frequency paths.

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- 13.(Currently Amended) The method of claim 11, wherein the ~~atomic-resolution-storage~~ memory component further includes a controller for operating the portable storage module and communicating between the memory component and the communication interface.
- 14.(Previously Presented) The method of claim 1, and further comprising:
performing the storing step and the recalling step in a broadband frequency format.
- 15.(Currently Amended) A portable entertainment media storage module comprising:
a storage device including an ~~atomic-resolution-storage~~ a memory component sized approximately one square millimeter and capable of storing gigabytes of data and capable of storing at least one entertainment media packet which includes audio and visual media; and
a communication interface for communicating to and from the ~~atomic-resolution storage-memory~~ component of the storage module.
- 16.(Original) The module of claim 15, wherein the communication interface includes wireless communication technology.
- 17.(Previously Presented) The module of claim 16, wherein the wireless communication technology includes at least one of a radio frequency communicator and an infrared bandwidth communicator.
- 18.(Currently Amended) The module of claim 15; and further comprising at least one of a microphone, a speaker, an input keypad, and a display for communicating with the ~~atomic-resolution-storage-memory~~ component of the storage device via the communication interface.
- 19.(Original) The module of claim 15, wherein the storage device further includes a logic controller.
- 20.(Original) The module of claim 15, wherein the entertainment packet includes at least one audio element.
- 21.(Original) The module of claim 20, wherein the audio element is a music CD.

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22.(Original) The module of claim 15, wherein the entertainment packet includes at least one printed media.

23.(Currently Amended) The module of claim 15, and further comprising a controller located on the ~~atomic-resolution-storage-memory~~ component.

24.(Currently Amended) The module of claim 15, wherein the ~~atomic-resolution-storage-memory~~ component further comprises:

a field emitter fabricated by semiconductor microfabrication techniques capable of generating an electron beam current; and

a storage medium in proximity to the field emitter and having a storage area in one of a plurality of states to represent the information stored in the storage area.

25.(Original) The module of claim 24, wherein an effect is generated when the electron beam current bombards the storage area, wherein the magnitude of the effect depends upon the state of the storage area, and wherein the information stored in a storage area is read by measuring the magnitude of the effect.

26.(Previously Presented) The module of claim 24, and further comprising:

a plurality of storage areas on the storage medium, with each storage area being similar to the one recited in claim 24, and

a microfabricated mover in the storage device to position different storage areas to be bombarded by the electron beam current.

27.(Previously Presented) The module of claim 26, and further comprising:

a plurality of field emitters, with each emitter being similar to the one recited in claim 24, the plurality of field emitters being spaced apart, with each emitter being responsible for a number of storage areas on the storage medium; and

such that a plurality of the field emitters can work in parallel to increase the data rate of the storage device.

28.(Previously Presented) The module of claim 15, and further comprising:

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a housing which encloses the storage device and the communication interface.

29.(Currently Amended) An information transfer and consumption system comprising:
a portable entertainment media storage module comprising:
~~an atomic-resolution storage device~~ sized approximately one square millimeter and capable of storing gigabytes of data and capable of storing at least one entertainment media packet which includes audio and visual media; and
a communication interface for communicating to and from the ~~atomic-resolution storage device~~;
an information library of multiple types of entertainment media stored as electronically readable information including:
a master memory module for storing a collection of entertainment media; and
a communication interface for selectively transferring a copy of a selection of the entertainment media collection from the information library to the ~~atomic-resolution storage device~~ of the portable entertainment media storage module; and
an entertainment media playback device for retrieving the entertainment media from the ~~atomic-resolution storage device~~ of the module and for making the entertainment media available in a consumable format.

30.(Currently Amended) A method of distributing books in electronically readable format, comprising:
providing an entertainment library being located in a public venue and having a selection of books in electronically readable format;
providing a portable storage module including a memory component sized approximately one square millimeter and capable of storing gigabytes of data with a display;
selecting at least one book from the entertainment library with the portable storage module;
downloading the selected book in electronically readable format from the entertainment library to the portable storage module; and
displaying at least a portion of the selected book on the display.

31.(Currently Amended) The method of claim 30, and further comprising:
~~the step of wearing the portable storage module about a body of a user.~~

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32.(Previously Presented) The method of claim 31, wherein the portable storage module is selected from the group consisting of eyeglasses, wristwatches, and neck pendants.

33.(Previously Presented) The method of claim 30, wherein the portable storage module comprises a cellular phone.

34.(Currently Amended) A method of distributing movies in electronic format, comprising:

providing an entertainment library being located in a public venue and having a selection of movies in electronic format;

providing a portable storage module including a memory component sized approximately one square millimeter and capable of storing gigabytes of data with a display;

selecting at least one movie from the entertainment library with the portable storage module;

downloading the selected movie in electronic format from the entertainment library to the portable storage module; and

displaying at least a portion of the selected movie on the display.

35.(Currently Amended) The method of claim 34, and further comprising:
~~the step of wearing the portable storage module about a body of a user.~~

36.(Previously Presented) The method of claim 35, wherein the portable storage module is selected from the group consisting of eyeglasses, wristwatches, and neck pendants.

37.(Currently Amended) The method of claim 34, wherein the portable storage module comprises a cellular ~~pen~~phone.